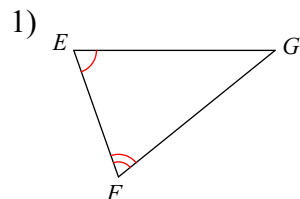


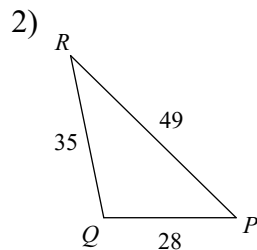
Assignment

Date _____ Period _____

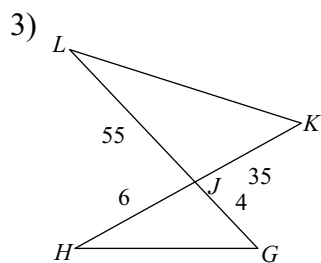
State if the triangles in each pair are similar. If so, complete the similarity statement.



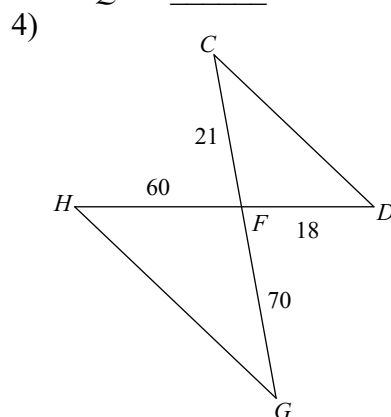
$\triangle EFG \sim$ _____



$\triangle RQP \sim$ _____

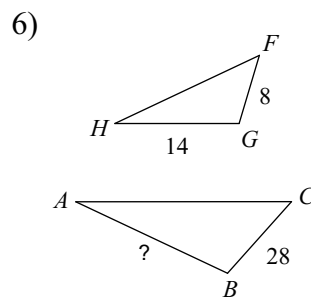
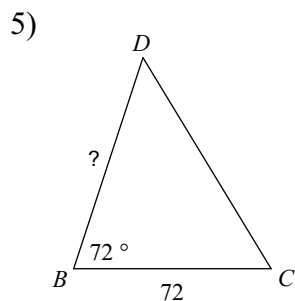


$\triangle JKL \sim$ _____

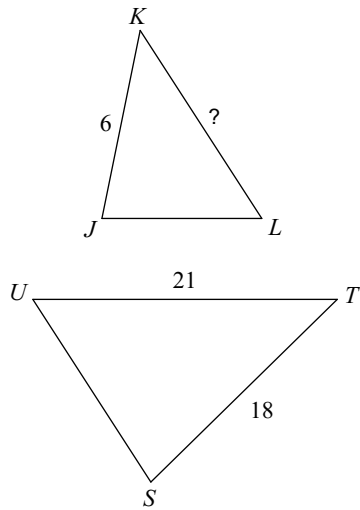


$\triangle FGH \sim$ _____

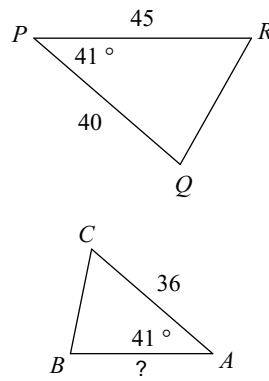
Find the missing length. (It may help to replace the ? with x.) The triangles in each pair are similar.



7)

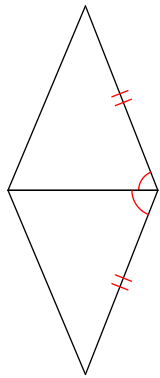


8)

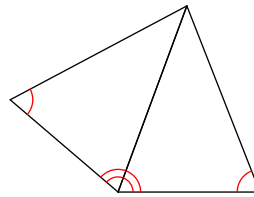


State if the two triangles are congruent. If they are, state how you know.

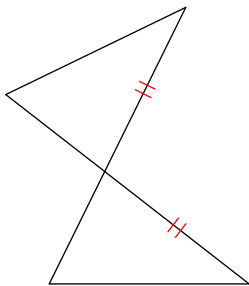
9)



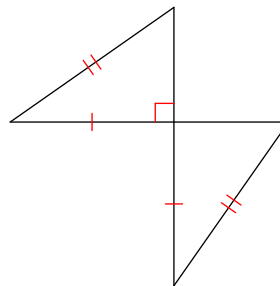
10)



11)

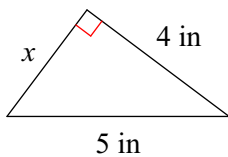


12)

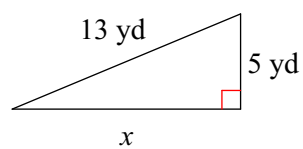


Find the missing side of each triangle. Round your answers to the nearest tenth if necessary.

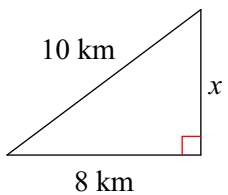
13)



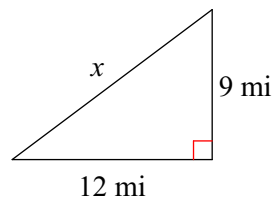
14)



15)

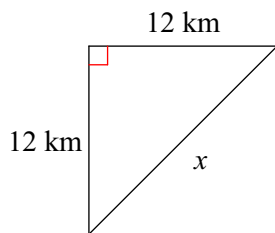


16)

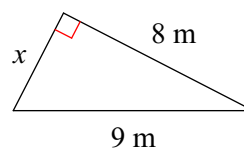


Find the missing side of each triangle. Write your answers in simplest radical form AND in rounded form.

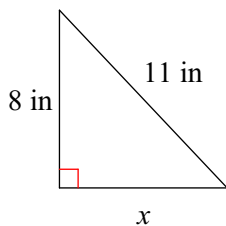
17)



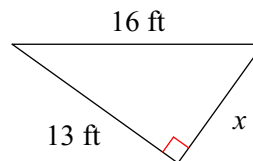
18)



19)

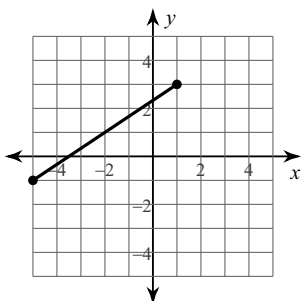


20)

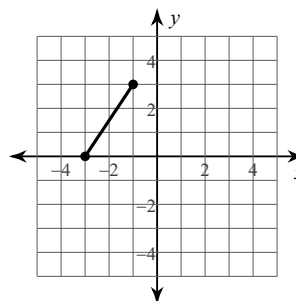


Find the distance between each pair of points. Round your answer to the nearest tenth, if necessary.

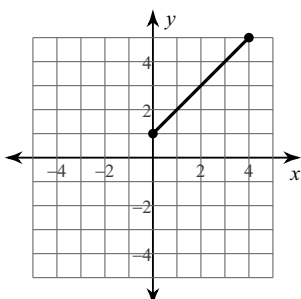
21)



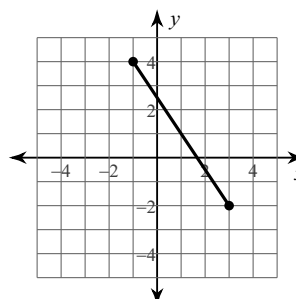
22)



23)



24)



Find the distance between each pair of points. Give in simplified radical form (not rounded).

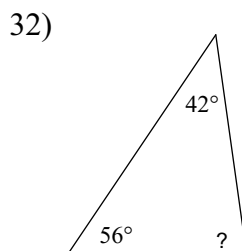
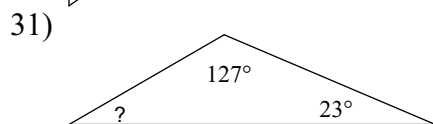
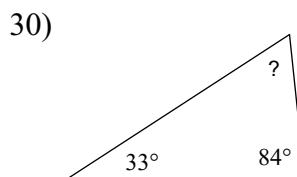
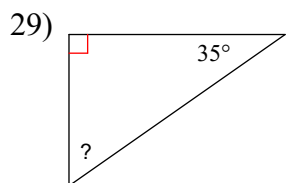
25) $(8, -11), (11, 5)$

26) $(12, -2), (6, -4)$

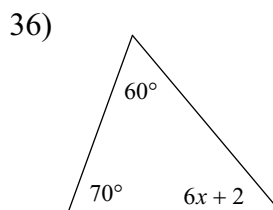
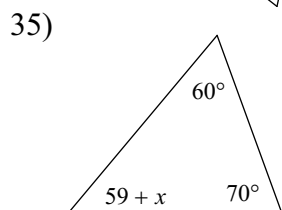
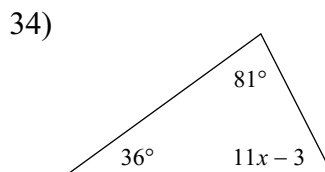
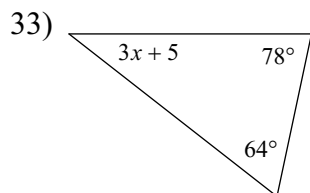
27) $(7, 7), (1, 9)$

28) $(5, -4), (3, 7)$

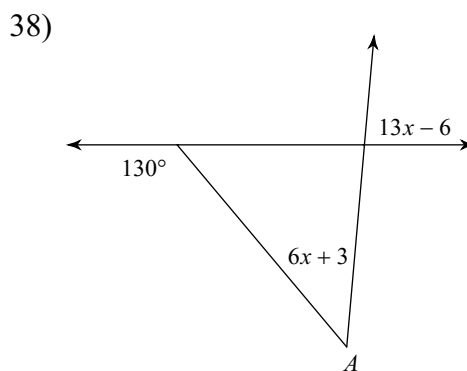
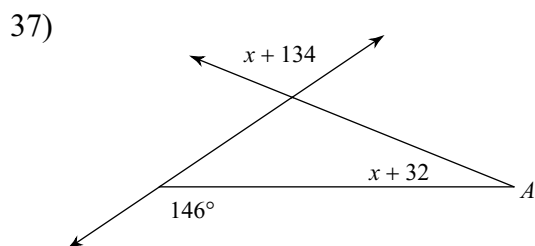
Find the measure of each angle indicated.



Solve for x .



Find the measure of angle A.



Solve for x . The triangles in each pair are similar.

